

SAF-RC-006
100-N Ancillary Facilities & 190-DR
Other Solid Sampling for ERDF Waste
Designation
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

Dave Encke X5-50

KW 8/27/2007
INITIAL/DATE

Amy Hood X5-50

KW 8/27/2007
INITIAL/DATE

Tom Edmundson X5-50

KW 8/27/2007
INITIAL/DATE

COMMENTS:

SDG 07-A-4707

SAF-RC-006

Rad only

☒ Chem only

Rad & Chem

☒ Complete

Partial

Waste Site(s): MO-829 Potential Asbestos

RECEIVED
SEP 04 2007
EDMC



8/23/07
Page 1 of 3

SUBMITTED TO:


Joan Kessner
Washington Closure Hanford
2620 Fermi Avenue, MSIN H4-21
Richland, WA 99354



REFERENCE DATA:

Client Sample No.:	J15HH4 through J15HJ3
P.O. No.:	Not Available
Sample Location:	MO-829 Potential Asbestos
Sample Type:	Bulk
Method Reference:	EPA-600/R-93/116
DCL Set ID No.:	07-A-4707
DCL Sample ID No.:	07-27135 through 07-27144
Sample Receipt Date:	8/23/07
Analysis Date:	8/23/07

We certify that the following samples were prepared and analyzed by Polarized Light Microscopy for asbestos and other fibrous constituents using EPA-600/R-93/116. The samples were acceptable upon receipt except where noted. The samples were examined under a stereomicroscope in a laboratory fume hood for general composition and phase separation. If needed, portions of the sample were removed and ground with a mortar and pestle before being mounted on a glass microscope slide. Mountings of representative portions of the material are prepared in one or more appropriate refractive index liquids (1.550, 1.605, 1.680) and examined by Polarized Light Microscopy*. Estimates of concentration are made on an area basis. The results of the analysis apply only to the materials analyzed and are summarized on the attached bulk asbestos analysis data sheets. DataChem Laboratories will dispose of all bulk samples after 60 days unless other arrangements are made.


Shawn Smythe
Analyst


Anna Marie Ristich
Reviewer

*Floor tiles, decorative paints, joint compounds, and cement materials require additional treatment in order to evaluate the concentration of small asbestos fibers bound in the material. Some samples may contain fibers that are not visible by PLM and can only be detected by electron microscopy techniques. Floor tiles are analyzed as homogeneous materials if insufficient mastic is present or if phases have been cross contaminated.

DataChem Laboratories NVLAP Lab ID: 101917. Laboratory accreditation by the National Institute of Standards and Technology does not in any way constitute approval or endorsement by NVLAP, NIST, or any agency of the federal government..

CINCINNATI OFFICE
4388 GLENDALE-MILFORD ROAD
CINCINNATI, OHIO 45242-3706
513 733-5336, FAX 513 733-5347

WEST COAST OFFICE
11 SANTA YORMA COURT
NOVATO, CALIFORNIA 94945
800 280-8071, FAX 415 893-9469

8/23/07

**DataChem Laboratories
Polarized Light Microscopy
Asbestos Analytical Report**


Client: Washington Closure Hanford
Location: MO-829 Potential Asbestos
Set ID: 07-A-4707

Client Sample ID:	J15HH4	J15HH5	J15HH6	J15HH7	J15HH8
DCL Sample ID:	07-27135	07-27136	07-27137	07-27138	07-27139
Macroscopic Examination					
Accepted/Rejected:	Accepted	Accepted	Accepted	Accepted	Accepted
Homogeneity:	Homog.	Layered	Layered	Layered	Layered
		Inseparable	Inseparable	Inseparable	Inseparable
Color:	Black	Grey/Tan	Grey/Tan	Grey/Tan	Grey/Tan
Texture:	Spongy	Fbrs/Crmby/Resn	Fbrs/Crmby/Resn	Fbrs/Crmby/Resn	Fbrs/Crmby/Resn
Description:	Material	Carpet	Carpet	Carpet	Carpet
Analysis:	PLM	PLM	PLM	PLM	PLM
Asbestiform Minerals					
% Chrysotile:					
% Amosite:					
% Crocidolite:					
% Tremolite - Actinolite:					
% Anthophyllite:					
% Total Asbestos:	ND	ND	ND	ND	ND
Other Materials					
% Cellulose:					
% Fiberglass:					
% Other Fibers:		>50 ≤ 60	>50 ≤ 60	>50 ≤ 60	>50 ≤ 60
% Resin/Binder:		>5 ≤ 10	>5 ≤ 10	>5 ≤ 10	>5 ≤ 10
% Non Fibrous:	>90 ≤ 100	>20 ≤ 30	>20 ≤ 30	>20 ≤ 30	>20 ≤ 30

ND = None Detected Trace = <1%

Special Prep Procedures: None.

*Notes: P. O. #: Not Available.


Shawn Smythe
Microscopist

All values are in area percent by visual estimate. The Federal Register Vol. 55 No. 224 Tuesday Nov. 20 1990 Rules and Regulations states "... If the asbestos content is estimated to be less than 10% by a method other than point counting,... (the analysis) be repeated using the point counting technique by PLM." Any of the above samples can be reanalyzed by point counting at the client's request. Wherever possible, separate phases are analyzed and reported individually.

8/23/07

**DataChem Laboratories
Polarized Light Microscopy
Asbestos Analytical Report**


Client: Washington Closure Hanford
Location: MO-829 Potential Asbestos
Set ID: 07-A-4707

Client Sample ID:	J15HH9	J15HJ0	J15HJ1	J15HJ2	J15HJ3
DCL Sample ID:	07-27140	07-27141	07-27142	07-27143	07-27144
Macroscopic Examination					
Accepted/Rejected:	Accepted	Accepted	Accepted	Accepted	Accepted
Homogeneity:	Layered	Layered	Layered	Layered	Layered
	Inseparable	Inseparable	Inseparable	Inseparable	Inseparable
Color:	Grey/Tan	Grey	Grey	Grey	Grey
Texture:	Fbrs/Crmby/Resn	Flex/Fbrs	Flex/Fbrs	Flex/Fbrs	Flex/Fbrs
Description:	Carpet	Linoleum	Linoleum	Linoleum	Linoleum
Analysis:	PLM	PLM	PLM	PLM	PLM
Asbestiform Minerals					
% Chrysotile:		>10 ≤ 20	>10 ≤ 20	>10 ≤ 20	>10 ≤ 20
% Amosite:					
% Crocidolite:					
% Tremolite - Actinolite:					
% Anthophyllite:					
% Total Asbestos:	ND	>10 ≤ 20	>10 ≤ 20	>10 ≤ 20	>10 ≤ 20
Other Materials					
% Cellulose:		>5 ≤ 10	>5 ≤ 10	>5 ≤ 10	>5 ≤ 10
% Fiberglass:					
% Other Fibers:	>50 ≤ 60				
% Resin/Binder:	>5 ≤ 10	>5 ≤ 10	>5 ≤ 10	>5 ≤ 10	>5 ≤ 10
% Non Fibrous:	>20 ≤ 30	>50 ≤ 60	>50 ≤ 60	>50 ≤ 60	>50 ≤ 60

ND = None Detected Trace = <1%

Special Prep Procedures: None.

*Notes: P. O. #: Not Available.


Shawn Smythe
Microscopist

All values are in area percent by visual estimate. The Federal Register Vol. 55 No. 224 Tuesday Nov. 20 1990 Rules and Regulations states "... If the asbestos content is estimated to be less than 10% by a method other than point counting,... (the analysis) be repeated using the point counting technique by PLM." Any of the above samples can be reanalyzed by point counting at the client's request. Wherever possible, separate phases are analyzed and reported individually.

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-006-146		Page 1 of 2	
Collector Amy Hood/Tom Edmundson		Company Contact J. Crocker		Telephone No. 376-4058		Project Coordinator KESSNER, JH		Price Code 9K Data Turnaround	
Project Designation 100-N Ancillary Facilities & 190-DR Other Solid Sampling f		Sampling Location MO-829 Potential Asbestos		SAF No. RC-006		7 Days TUE 8-22-07 / Day			
Ice Chest No. FED EX BOX		Field Logbook No. EL-1516-11		COA RD4MXX2F00		Method of Shipment Fed Ex			
Shipped To DataChem Laboratories - Cincinnati		Offsite Property No. A 070305		Bill of Lading/Air Bill No. SEE OSCP					
POSSIBLE SAMPLE HAZARDS/REMARKS N/A		Preservation		None					
Special Handling and/or Storage N/A		Type of Container		GP					
		No. of Container(s)		1					
		Volume		5g					
SAMPLE ANALYSIS 07 A 4707				Asbestos-BULK-EPA					
Sample No.	Matrix *	Sample Date	Sample Time						
J15HH4 27135	OTHER SOLID	8-22-07	0927	✓					
J15HH5 27136	OTHER SOLID	8-22-07	0956	✓					
J15HH6 27137	OTHER SOLID	8-22-07	0950	✓					
J15HH7 27138	OTHER SOLID	8-22-07	0948	✓					
J15HH8 27139	OTHER SOLID	8-22-07	0946	✓					
CHAIN OF POSSESSION		Sign/Print Names		SPECIAL INSTRUCTIONS					
Relinquished By/Removed From Date/Time		Received By/Stored In Date/Time		Potential ACM					
Relinquished By/Removed From Date/Time		Received By/Stored In Date/Time		Rush					
Relinquished By/Removed From Date/Time		Received By/Stored In Date/Time							
Relinquished By/Removed From Date/Time		Received By/Stored In Date/Time							
Relinquished By/Removed From Date/Time		Received By/Stored In Date/Time							
Relinquished By/Removed From Date/Time		Received By/Stored In Date/Time							
LABORATORY SECTION		Received By		Title					
FINAL SAMPLE DISPOSITION		Disposal Method		Disposed By					
				Date/Time 8/23/07 / 1993					
				Date/Time					

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-006-146		Page 2 of 2	
Collector Amy Hood/Tom Edmundson		Company Contact J. Crocker		Telephone No. 376-4058		Project Coordinator KESSNER, JH		Price Code 9K Data Turnaround	
Project Designation 100-N Ancillary Facilities & 190-DR Other Solid Sampling f		Sampling Location MO-829 Potential Asbestos		SAF No. RC-006		7 Days TUE 8-22-07			
Ice Chest No. FED EX BOX		Field Logbook No. EL-1516-11		COA RD4MDCX2F00					
Shipped To DataChem Laboratories - Cincinnati		Offsite Property No. A070305		Method of Shipment Fed Ex		Bill of Lading/Air Bill No. SEE OSPC			
POSSIBLE SAMPLE HAZARDS/REMARKS N/A Special Handling and/or Storage N/A		Preservation		None					
		Type of Container		G/P					
		No. of Container(s)		1					
		Volume		5g					
SAMPLE ANALYSIS 4707		Asbestos- BULK-EPA							
Sample No.		Matrix *		Sample Date		Sample Time			
J15H19 27140		OTHER SOLID		8-22-07		0940		✓	
J15HJ0 27141		OTHER SOLID		8-22-07		0959		✓	
J15HJ1 27142		OTHER SOLID		8-22-07		1004		✓	
J15HJ2 27143		OTHER SOLID		8-22-07		1011		✓	
J15HJ3 27144		OTHER SOLID		8-22-07		1015		✓	
CHAIN OF POSSESSION				Sign/Print Names		SPECIAL INSTRUCTIONS			
Relinquished By/Removed From [Signature] 8-22-07 1300		Received By/Stored In [Signature] 8-22-07 1300		Potential ACM		Rush			
Relinquished By/Removed From [Signature] 8-22-07 1500		Received By/Stored In FED EX							
Relinquished By/Removed From [Signature]		Received By/Stored In [Signature] 8/23/07 1413							
Relinquished By/Removed From		Received By/Stored In							
Relinquished By/Removed From		Received By/Stored In							
Relinquished By/Removed From		Received By/Stored In							
LABORATORY SECTION		Received By [Signature]		Title		Date/Time 8/23/07 / 0943			
FINAL SAMPLE DISPOSITION		Disposal Method		Disposed By					